

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553218

Operator: XTO PERMIAN OPERATING
LLC

Notice of Intent

Sundry ID: 2784401

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/10/2024

Time Sundry Submitted: 02:53

Date proposed operation will begin: 06/11/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 391' FNL & 328' FWL OF SECTION 21-T24S-R30E 201' FNL & 357' FWL OF SECTION 21-T24S-R30E FTP: 386' FNL & 734' FWL OF SECTION 21-T24S-R30E 100' FNL & 459' FWL OF SECTION 21-T24S-R30E LTP: 330' FNL & 851' FWL OF SECTION 33-T23S-R30E 2542' FNL & 459' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 851' FWL OF SECTION 33-T23S-R30E 2632' FNL & 459' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32732' MD; 11028' TVD (Wolfcamp) to 22217' MD; 9422' TVD (Bone Spring 2 Sand). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_21_DTD_121H_TLG_Sundry_Docs_20240808133736.pdf

US Well Number: 3001553218

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

POKER_LAKE_UNIT_21_DTD_121H_COA_20240827161753.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRA SEBASTIAN

Signed on: AUG 08, 2024 01:37 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 09/04/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMLC068430
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 21 DTD/121H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553218
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 21/T24S/R30E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:
SHL: 391' FNL & 328' FWL OF SECTION 21-T24S-R30E 201' FNL & 357' FWL OF SECTION 21-T24S-R30E
FTP: 386' FNL & 734' FWL OF SECTION 21-T24S-R30E 100' FNL & 459' FWL OF SECTION 21-T24S-R30E
LTP: 330' FNL & 851' FWL OF SECTION 33-T23S-R30E 2542' FNL & 459' FWL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 851' FWL OF SECTION 33-T23S-R30E 2632' FNL & 459' FWL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 32732 MD; 11028 TVD (Wolfcamp) to 22217 MD; 9422 TVD (Bone Spring 2 Sand).

See attached Drilling Plan for updated cement and casing program.
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) TERRA SEBASTIAN / Ph: (432) 999-3107	Title Regulatory Advisor
Signature (Electronic Submission)	Date 08/08/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/04/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

Location of Well

0. SHL: NWNW / 391 FNL / 328 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209383 / LONG: -103.893824 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 386 FNL / 734 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209399 / LONG: -103.892511 (TVD: 11028 feet, MD: 11383 feet)

BHL: NWNW / 200 FNL / 851 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268082 / LONG: -103.892131 (TVD: 11028 feet, MD: 32732 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC068430
LOCATION:	Sec. 21, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	PLU 21 DTD 121H
SURFACE HOLE FOOTAGE:	201'N & 357'W
BOTTOM HOLE FOOTAGE:	2632'N & 459'W

Changes approved through engineering via **Sundry 2784401** on 8-27-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	<input checked="" type="radio"/> No <input type="radio"/> Yes			
Potash / WIPP	<input checked="" type="radio"/> None <input type="radio"/> Secretary <input type="radio"/> R-111-Q <input type="checkbox"/> Open Annulus WIPP			
	Choose an option (including blank option.)			
Cave / Karst	<input checked="" type="radio"/> Low <input type="radio"/> Medium <input type="radio"/> High <input type="radio"/> Critical			
Wellhead	<input type="radio"/> Conventional <input checked="" type="radio"/> Multibowl <input type="radio"/> Both <input type="radio"/> Diverter			
Cementing	<input checked="" type="checkbox"/> Primary Squeeze <input type="checkbox"/> Cont. Squeeze <input checked="" type="checkbox"/> EchoMeter <input type="checkbox"/> DV Tool			
Special Req	<input type="checkbox"/> Capitan Reef <input type="checkbox"/> Water Disposal <input type="checkbox"/> COM <input checked="" type="checkbox"/> Unit			
Waste Prev.	<input type="radio"/> Self-Certification <input type="radio"/> Waste Min. Plan <input checked="" type="radio"/> APD Submitted prior to 06/10/2024			
Additional Language	<input checked="" type="checkbox"/> Flex Hose <input checked="" type="checkbox"/> Casing Clearance <input type="checkbox"/> Pilot Hole <input checked="" type="checkbox"/> Break Testing			
	<input type="checkbox"/> Four-String <input checked="" type="checkbox"/> Offline Cementing <input type="checkbox"/> Fluid-Filled			

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **880** feet (a minimum of **70 feet** (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6215'**
- b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Operator has proposed to pump down **Surface X Intermediate 1** annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

If cement does not reach surface, the next casing string must come to surface.

- 3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 1st Intermediate casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

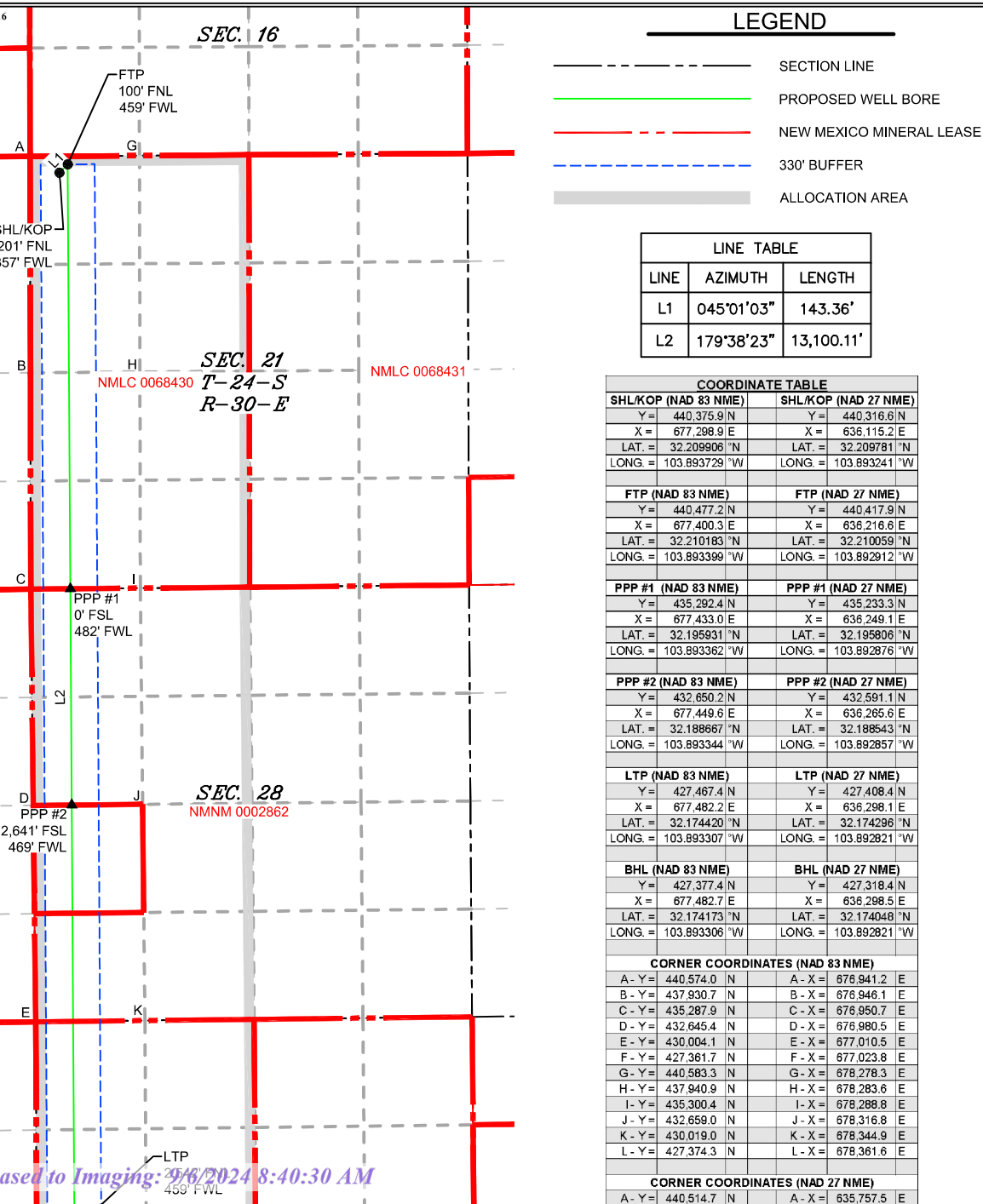
disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 8/27/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code 97798		³ Pool Name WILDCAT G-06 S243026M;BONE SPRING					
⁴ Property Code		⁵ Property Name POKER LAKE UNIT 21 DTD						⁶ Well Number 121H	
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC.						⁹ Elevation 3,317'	
¹⁰ Surface Location									
UL or lot no. D	Section 21	Township 24S	Range 30E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. E	Section 33	Township 24S	Range 30E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
¹² Dedicated Acres 800.00		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Terra Sebastian 8/8/2024
Signature Date

Terra Sebastian
Printed Name

terra.b.sebastian@exxonmobil.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

7/11/2024
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROF. SURVEYOR

Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 121H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL D	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 459	From E/W WEST	County EDDY
Latitude 32.210183					Longitude -103.893399				NAD 83

Last Take Point (LTP)

UL E	Section 33	Township 24S	Range 30E	Lot	Feet 2,542	From N/S NORTH	Feet 459	From E/W WEST	County EDDY
Latitude 32.174420					Longitude -103.893307				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 121H

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API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
POKER LAKE UNIT 21 DTD 121H
Projected TD: 22217' MD / 9422' TVD
SHL: 201' FNL & 357' FWL , Section 21, T24S, R30E
BHL: 2632' FNL & 459' FWL , Section 33, T23S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	879'	Water
Top of Salt	1282'	Water
Base of Salt	3475'	Water
Delaware	3669'	Water
Brushy Canyon	6215'	Water/Oil/Gas
Bone Spring	7539'	Water
Avalon	8232'	Water/Oil/Gas
1st Bone Spring	8248'	Water/Oil/Gas
2nd Bone Spring	8833'	Water/Oil/Gas
Target/Land Curve	9422'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 979' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 7559' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22217 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 7259 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 979'	9.625	40	J-55	BTC	New	2.20	6.43	16.09
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.08	2.92	2.49
8.75	4000' – 7559'	7.625	29.7	HC L-80	Flush Joint	New	2.24	3.16	3.84
6.75	0' – 7459'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.73	2.26
6.75	7459' - 22217'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.16	2.26

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry

· 7.625 Collapse analyzed using 50% evacuation based on regional experience.

· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Wellhead:

XTO will use a Multi-Bowl system which is attached.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 979'

Lead: 220 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 7559'

1st Stage

Optional Lead: 330 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 120 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6215

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)

Tail: 700 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6215') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22217'

Lead: 50 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 7259 feet

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 8708 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 10M Double Ram BOP.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole

on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 979'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
979'-3669'		Salt Saturated	10.5-11			Fully Saturated salt across salado / salt
3669' - 7559'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
7559' - 22217'	6.75	OBM	11.5-12	50-60	NC - 20	N/A

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system."

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will include Quad Combo

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5144 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - Poker Lake Unit 21 DTD South 121H

Measured Depth: 22216.73 ft
TVD RKB: 9422.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440316.60 ft
Easting: 636115.20 ft
RKB: 3349.00 ft
Ground Level: 3317.00 ft
North Reference: Grid
Convergence Angle: 0.23 Deg

Plan Sections

Poker Lake Unit 21 DTD South 121H									
Measured		TVD		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	X Offset	Y Offset	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1195.35	1.91	45.03	1195.34	1.12	1.12	2.00	0.00	2.00	2.00
5407.01	1.91	45.03	5404.66	100.18	100.28	0.00	0.00	0.00	0.00
5502.37	0.00	0.00	5500.00	101.30	101.40	-2.00	0.00	2.00	2.00
8708.17	0.00	0.00	8705.80	101.30	101.40	0.00	0.00	0.00	0.00
9833.17	90.00	179.64	9422.00	-614.88	105.89	8.00	0.00	8.00	8.00
22126.72	90.00	179.64	9422.00	-12908.20	182.92	0.00	0.00	0.00	0.00
22216.73	90.00	179.64	9422.00	-12998.20	183.48	0.00	0.00	0.00	0.00

Position Uncertainty

Poker Lake Unit 21 DTD South 121H									
Measured		TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.220	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	1.259	0.000	0.627	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.000	0.986	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	0.000	1.344	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	2.503	0.000	1.701	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	2.888	0.000	2.059	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	0.000	3.267	0.000	2.417	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	3.642	0.000	2.775	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.530	0.000	4.014	0.000	3.133	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.580	0.000	4.384	0.000	3.491	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.633	0.000	4.752	0.000	3.849	3.849	128.859	MWD+IFR1+MS
1195.353	1.907	45.028	1195.335	5.230	0.000	4.208	0.000	2.687	0.000	5.234	0.000	4.205	4.205	132.117	MWD+IFR1+MS
1200.000	1.907	45.028	1199.980	5.243	0.000	4.224	0.000	2.689	0.000	5.248	0.000	4.221	4.221	132.105	MWD+IFR1+MS
1300.000	1.907	45.028	1299.924	5.540	0.000	4.587	0.000	2.749	0.000	5.545	0.000	4.585	4.585	132.288	MWD+IFR1+MS
1400.000	1.907	45.028	1399.869	5.867	0.000	4.976	0.000	2.811	0.000	5.869	0.000	4.976	4.976	134.015	MWD+IFR1+MS
1500.000	1.907	45.028	1499.814	6.197	0.000	5.361	0.000	2.876	0.000	6.199	0.000	5.361	5.361	-44.256	MWD+IFR1+MS
1600.000	1.907	45.028	1599.758	6.530	0.000	5.742	0.000	2.944	0.000	6.533	0.000	5.740	5.740	-42.538	MWD+IFR1+MS
1700.000	1.907	45.028	1699.703	6.866	0.000	6.120	0.000	3.014	0.000	6.871	0.000	6.116	6.116	-40.842	MWD+IFR1+MS
1800.000	1.907	45.028	1799.647	7.204	0.000	6.496	0.000	3.086	0.000	7.212	0.000	6.489	6.489	-39.182	MWD+IFR1+MS
1900.000	1.907	45.028	1899.592	7.544	0.000	6.871	0.000	3.160	0.000	7.556	0.000	6.858	6.858	-37.566	MWD+IFR1+MS
2000.000	1.907	45.028	1999.537	7.886	0.000	7.243	0.000	3.235	0.000	7.902	0.000	7.226	7.226	-36.004	MWD+IFR1+MS
2100.000	1.907	45.028	2099.481	8.229	0.000	7.614	0.000	3.313	0.000	8.251	0.000	7.592	7.592	-34.502	MWD+IFR1+MS
2200.000	1.907	45.028	2199.426	8.573	0.000	7.984	0.000	3.392	0.000	8.601	0.000	7.956	7.956	-33.066	MWD+IFR1+MS
2300.000	1.907	45.028	2299.371	8.919	0.000	8.354	0.000	3.473	0.000	8.952	0.000	8.319	8.319	-31.697	MWD+IFR1+MS
2400.000	1.907	45.028	2399.315	9.266	0.000	8.722	0.000	3.555	0.000	9.304	0.000	8.681	8.681	-30.398	MWD+IFR1+MS
2500.000	1.907	45.028	2499.260	9.614	0.000	9.089	0.000	3.639	0.000	9.658	0.000	9.042	9.042	-29.170	MWD+IFR1+MS
2600.000	1.907	45.028	2599.204	9.962	0.000	9.456	0.000	3.724	0.000	10.012	0.000	9.402	9.402	-28.010	MWD+IFR1+MS
2700.000	1.907	45.028	2699.149	10.311	0.000	9.822	0.000	3.811	0.000	10.368	0.000	9.762	9.762	-26.917	MWD+IFR1+MS
2800.000	1.907	45.028	2799.094	10.661	0.000	10.187	0.000	3.898	0.000	10.723	0.000	10.121	10.121	-25.889	MWD+IFR1+MS
2900.000	1.907	45.028	2899.038	11.012	0.000	10.552	0.000	3.988	0.000	11.080	0.000	10.480	10.480	-24.923	MWD+IFR1+MS

3000.000	1.907	45.028	2998.983	11.363	0.000	10.917	0.000	4.078	0.000	0.000	11.436	10.838	-24.016	MWD+IFR1+MS
3100.000	1.907	45.028	3098.927	11.714	0.000	11.281	0.000	4.170	0.000	0.000	11.794	11.197	-23.164	MWD+IFR1+MS
3200.000	1.907	45.028	3198.872	12.066	0.000	11.645	0.000	4.264	0.000	0.000	12.151	11.555	-22.365	MWD+IFR1+MS
3300.000	1.907	45.028	3298.817	12.419	0.000	12.008	0.000	4.358	0.000	0.000	12.509	11.912	-21.614	MWD+IFR1+MS
3400.000	1.907	45.028	3398.761	12.771	0.000	12.371	0.000	4.454	0.000	0.000	12.867	12.270	-20.910	MWD+IFR1+MS
3500.000	1.907	45.028	3498.706	13.125	0.000	12.734	0.000	4.552	0.000	0.000	13.225	12.628	-20.248	MWD+IFR1+MS
3600.000	1.907	45.028	3598.651	13.478	0.000	13.097	0.000	4.651	0.000	0.000	13.584	12.985	-19.627	MWD+IFR1+MS
3700.000	1.907	45.028	3698.595	13.832	0.000	13.459	0.000	4.751	0.000	0.000	13.942	13.343	-19.042	MWD+IFR1+MS
3800.000	1.907	45.028	3798.540	14.186	0.000	13.821	0.000	4.853	0.000	0.000	14.301	13.700	-18.492	MWD+IFR1+MS
3900.000	1.907	45.028	3898.484	14.540	0.000	14.183	0.000	4.956	0.000	0.000	14.659	14.057	-17.975	MWD+IFR1+MS
4000.000	1.907	45.028	3998.429	14.895	0.000	14.545	0.000	5.060	0.000	0.000	15.018	14.415	-17.487	MWD+IFR1+MS
4100.000	1.907	45.028	4098.374	15.249	0.000	14.907	0.000	5.167	0.000	0.000	15.377	14.772	-17.027	MWD+IFR1+MS
4200.000	1.907	45.028	4198.318	15.604	0.000	15.268	0.000	5.274	0.000	0.000	15.736	15.129	-16.593	MWD+IFR1+MS
4300.000	1.907	45.028	4298.263	15.959	0.000	15.630	0.000	5.384	0.000	0.000	16.095	15.486	-16.183	MWD+IFR1+MS
4400.000	1.907	45.028	4398.207	16.315	0.000	15.991	0.000	5.495	0.000	0.000	16.454	15.844	-15.796	MWD+IFR1+MS
4500.000	1.907	45.028	4498.152	16.670	0.000	16.352	0.000	5.607	0.000	0.000	16.813	16.201	-15.429	MWD+IFR1+MS
4600.000	1.907	45.028	4598.097	17.026	0.000	16.713	0.000	5.722	0.000	0.000	17.172	16.558	-15.082	MWD+IFR1+MS
4700.000	1.907	45.028	4698.041	17.382	0.000	17.074	0.000	5.838	0.000	0.000	17.531	16.916	-14.754	MWD+IFR1+MS
4800.000	1.907	45.028	4797.986	17.738	0.000	17.435	0.000	5.956	0.000	0.000	17.891	17.273	-14.442	MWD+IFR1+MS
4900.000	1.907	45.028	4897.930	18.094	0.000	17.795	0.000	6.076	0.000	0.000	18.250	17.631	-14.147	MWD+IFR1+MS
5000.000	1.907	45.028	4997.875	18.450	0.000	18.156	0.000	6.197	0.000	0.000	18.609	17.988	-13.867	MWD+IFR1+MS
5100.000	1.907	45.028	5097.820	18.806	0.000	18.516	0.000	6.321	0.000	0.000	18.968	18.345	-13.600	MWD+IFR1+MS
5200.000	1.907	45.028	5197.764	19.163	0.000	18.877	0.000	6.446	0.000	0.000	19.327	18.703	-13.347	MWD+IFR1+MS
5300.000	1.907	45.028	5297.709	19.519	0.000	19.237	0.000	6.574	0.000	0.000	19.686	19.060	-13.106	MWD+IFR1+MS
5407.015	1.907	45.028	5404.665	19.902	0.000	19.624	0.000	6.712	0.000	0.000	20.074	19.443	-12.805	MWD+IFR1+MS
5502.368	0.000	0.000	5500.000	19.841	0.000	20.380	0.000	6.837	0.000	0.000	20.420	19.800	-14.770	MWD+IFR1+MS
5600.000	0.000	0.000	5597.632	20.232	0.000	20.719	0.000	6.967	0.000	0.000	20.771	20.178	-17.365	MWD+IFR1+MS
5700.000	0.000	0.000	5697.632	20.592	0.000	21.067	0.000	7.102	0.000	0.000	21.124	20.534	-18.146	MWD+IFR1+MS
5800.000	0.000	0.000	5797.632	20.952	0.000	21.416	0.000	7.239	0.000	0.000	21.477	20.890	-18.924	MWD+IFR1+MS
5900.000	0.000	0.000	5897.632	21.313	0.000	21.765	0.000	7.378	0.000	0.000	21.831	21.246	-19.683	MWD+IFR1+MS
6000.000	0.000	0.000	5997.632	21.673	0.000	22.114	0.000	7.519	0.000	0.000	22.185	21.601	-20.422	MWD+IFR1+MS
6100.000	0.000	0.000	6097.632	22.034	0.000	22.464	0.000	7.663	0.000	0.000	22.539	21.957	-21.142	MWD+IFR1+MS
6200.000	0.000	0.000	6197.632	22.394	0.000	22.814	0.000	7.809	0.000	0.000	22.894	22.312	-21.841	MWD+IFR1+MS

6300.000	0.000	0.000	6297.632	22.754	0.000	23.164	0.000	7.957	0.000	0.000	23.248	22.668	-22.520	MWD+IFR1+MS
6400.000	0.000	0.000	6397.632	23.114	0.000	23.515	0.000	8.108	0.000	0.000	23.604	23.023	-23.180	MWD+IFR1+MS
6500.000	0.000	0.000	6497.632	23.474	0.000	23.865	0.000	8.261	0.000	0.000	23.959	23.379	-23.819	MWD+IFR1+MS
6600.000	0.000	0.000	6597.632	23.834	0.000	24.216	0.000	8.416	0.000	0.000	24.315	23.734	-24.440	MWD+IFR1+MS
6700.000	0.000	0.000	6697.632	24.194	0.000	24.567	0.000	8.574	0.000	0.000	24.670	24.089	-25.041	MWD+IFR1+MS
6800.000	0.000	0.000	6797.632	24.554	0.000	24.919	0.000	8.734	0.000	0.000	25.026	24.444	-25.623	MWD+IFR1+MS
6900.000	0.000	0.000	6897.632	24.914	0.000	25.270	0.000	8.897	0.000	0.000	25.383	24.799	-26.187	MWD+IFR1+MS
7000.000	0.000	0.000	6997.632	25.274	0.000	25.622	0.000	9.062	0.000	0.000	25.739	25.154	-26.733	MWD+IFR1+MS
7100.000	0.000	0.000	7097.632	25.634	0.000	25.974	0.000	9.230	0.000	0.000	26.096	25.510	-27.262	MWD+IFR1+MS
7200.000	0.000	0.000	7197.632	25.993	0.000	26.326	0.000	9.400	0.000	0.000	26.452	25.865	-27.774	MWD+IFR1+MS
7300.000	0.000	0.000	7297.632	26.353	0.000	26.678	0.000	9.573	0.000	0.000	26.809	26.220	-28.269	MWD+IFR1+MS
7400.000	0.000	0.000	7397.632	26.713	0.000	27.030	0.000	9.749	0.000	0.000	27.166	26.575	-28.748	MWD+IFR1+MS
7500.000	0.000	0.000	7497.632	27.073	0.000	27.383	0.000	9.927	0.000	0.000	27.523	26.930	-29.212	MWD+IFR1+MS
7600.000	0.000	0.000	7597.632	27.432	0.000	27.736	0.000	10.108	0.000	0.000	27.880	27.285	-29.661	MWD+IFR1+MS
7700.000	0.000	0.000	7697.632	27.792	0.000	28.089	0.000	10.291	0.000	0.000	28.238	27.641	-30.095	MWD+IFR1+MS
7800.000	0.000	0.000	7797.632	28.151	0.000	28.442	0.000	10.478	0.000	0.000	28.595	27.996	-30.516	MWD+IFR1+MS
7900.000	0.000	0.000	7897.632	28.511	0.000	28.795	0.000	10.667	0.000	0.000	28.952	28.351	-30.923	MWD+IFR1+MS
8000.000	0.000	0.000	7997.632	28.871	0.000	29.148	0.000	10.858	0.000	0.000	29.310	28.706	-31.317	MWD+IFR1+MS
8100.000	0.000	0.000	8097.632	29.230	0.000	29.501	0.000	11.053	0.000	0.000	29.668	29.061	-31.698	MWD+IFR1+MS
8200.000	0.000	0.000	8197.632	29.590	0.000	29.855	0.000	11.250	0.000	0.000	30.025	29.417	-32.067	MWD+IFR1+MS
8300.000	0.000	0.000	8297.632	29.949	0.000	30.209	0.000	11.450	0.000	0.000	30.383	29.772	-32.425	MWD+IFR1+MS
8400.000	0.000	0.000	8397.632	30.308	0.000	30.562	0.000	11.652	0.000	0.000	30.741	30.127	-32.772	MWD+IFR1+MS
8500.000	0.000	0.000	8497.632	30.668	0.000	30.916	0.000	11.858	0.000	0.000	31.099	30.483	-33.107	MWD+IFR1+MS
8600.000	0.000	0.000	8597.632	31.027	0.000	31.270	0.000	12.066	0.000	0.000	31.457	30.838	-33.433	MWD+IFR1+MS
8708.168	0.000	0.000	8705.800	31.417	0.000	31.654	0.000	12.294	0.000	0.000	31.846	31.223	-33.811	MWD+IFR1+MS
8800.000	7.347	179.641	8797.381	31.670	0.000	31.961	-0.000	12.498	0.000	0.000	32.222	31.660	-43.527	MWD+IFR1+MS
8900.000	15.347	179.641	8895.346	32.448	0.000	32.271	-0.000	12.824	0.000	0.000	33.496	32.169	105.579	MWD+IFR1+MS
9000.000	23.347	179.641	8989.623	32.799	0.000	32.569	-0.000	13.370	0.000	0.000	34.875	32.490	99.968	MWD+IFR1+MS
9100.000	31.347	179.641	9078.375	32.656	0.000	32.850	-0.000	14.194	0.000	0.000	36.076	32.773	98.191	MWD+IFR1+MS
9200.000	39.347	179.641	9159.876	32.085	0.000	33.112	-0.000	15.317	0.000	0.000	37.071	33.033	97.463	MWD+IFR1+MS
9300.000	47.347	179.641	9232.538	31.171	0.000	33.354	-0.000	16.713	0.000	0.000	37.855	33.269	97.191	MWD+IFR1+MS
9400.000	55.347	179.641	9294.948	30.026	0.000	33.573	-0.000	18.333	0.000	0.000	38.436	33.482	97.174	MWD+IFR1+MS
9500.000	63.347	179.641	9345.891	28.791	0.000	33.770	-0.000	20.108	0.000	0.000	38.831	33.671	97.324	MWD+IFR1+MS

9600.000	71.347	179.641	9384.376	27.637	0.000	33.942	-0.000	21.972	0.000	0.000	39.068	33.835	97.585	MWD+IFR1+MS
9700.000	79.347	179.641	9409.652	26.752	0.000	34.090	-0.000	23.859	0.000	0.000	39.184	33.975	97.906	MWD+IFR1+MS
9800.000	87.347	179.641	9421.229	26.321	0.000	34.212	-0.000	25.708	0.000	0.000	39.223	34.089	98.222	MWD+IFR1+MS
9833.168	90.000	179.641	9421.997	25.835	0.000	34.244	-0.000	25.835	0.000	0.000	39.228	34.119	98.300	MWD+IFR1+MS
9900.000	90.000	179.641	9421.997	25.956	0.000	34.309	-0.000	25.956	0.000	0.000	39.234	34.182	98.468	MWD+IFR1+MS
10000.000	90.000	179.641	9421.997	26.123	0.000	34.426	-0.000	26.123	0.000	0.000	39.244	34.293	98.755	MWD+IFR1+MS
10100.000	90.000	179.641	9421.997	26.314	0.000	34.561	-0.000	26.314	0.000	0.000	39.256	34.422	99.086	MWD+IFR1+MS
10200.000	90.000	179.641	9421.997	26.527	0.000	34.712	-0.000	26.527	0.000	0.000	39.268	34.566	99.463	MWD+IFR1+MS
10300.000	90.000	179.641	9421.997	26.761	0.000	34.879	-0.000	26.761	0.000	0.000	39.283	34.725	99.893	MWD+IFR1+MS
10400.000	90.000	179.641	9421.997	27.016	0.000	35.062	-0.000	27.016	0.000	0.000	39.298	34.900	100.385	MWD+IFR1+MS
10500.000	90.000	179.641	9421.997	27.292	0.000	35.261	-0.000	27.292	0.000	0.000	39.316	35.089	100.951	MWD+IFR1+MS
10600.000	90.000	179.641	9421.997	27.586	0.000	35.475	-0.000	27.586	0.000	0.000	39.335	35.292	101.605	MWD+IFR1+MS
10700.000	90.000	179.641	9421.997	27.900	0.000	35.705	-0.000	27.900	0.000	0.000	39.357	35.509	102.363	MWD+IFR1+MS
10800.000	90.000	179.641	9421.997	28.232	0.000	35.949	-0.000	28.232	0.000	0.000	39.381	35.738	103.251	MWD+IFR1+MS
10900.000	90.000	179.641	9421.997	28.582	0.000	36.208	-0.000	28.582	0.000	0.000	39.409	35.979	104.296	MWD+IFR1+MS
11000.000	90.000	179.641	9421.997	28.949	0.000	36.481	-0.000	28.949	0.000	0.000	39.441	36.230	105.540	MWD+IFR1+MS
11100.000	90.000	179.641	9421.997	29.332	0.000	36.768	-0.000	29.332	0.000	0.000	39.478	36.491	107.033	MWD+IFR1+MS
11200.000	90.000	179.641	9421.997	29.731	0.000	37.068	-0.000	29.731	0.000	0.000	39.521	36.760	108.843	MWD+IFR1+MS
11300.000	90.000	179.641	9421.997	30.146	0.000	37.382	-0.000	30.146	0.000	0.000	39.573	37.034	111.058	MWD+IFR1+MS
11400.000	90.000	179.641	9421.997	30.574	0.000	37.709	-0.000	30.574	0.000	0.000	39.637	37.310	113.788	MWD+IFR1+MS
11500.000	90.000	179.641	9421.997	31.017	0.000	38.048	-0.000	31.017	0.000	0.000	39.716	37.583	117.160	MWD+IFR1+MS
11600.000	90.000	179.641	9421.997	31.473	0.000	38.400	-0.000	31.473	0.000	0.000	39.816	37.848	121.290	MWD+IFR1+MS
11700.000	90.000	179.641	9421.997	31.942	0.000	38.764	-0.000	31.942	0.000	0.000	39.944	38.098	126.224	MWD+IFR1+MS
11800.000	90.000	179.641	9421.997	32.423	0.000	39.139	-0.000	32.423	0.000	0.000	40.108	38.323	131.839	MWD+IFR1+MS
11900.000	90.000	179.641	9421.997	32.916	0.000	39.525	-0.000	32.916	0.000	0.000	40.315	38.519	-42.213	MWD+IFR1+MS
12000.000	90.000	179.641	9421.997	33.419	0.000	39.923	-0.000	33.419	0.000	0.000	40.566	38.681	-36.423	MWD+IFR1+MS
12100.000	90.000	179.641	9421.997	33.934	0.000	40.331	-0.000	33.934	0.000	0.000	40.859	38.812	-31.212	MWD+IFR1+MS
12200.000	90.000	179.641	9421.997	34.459	0.000	40.749	-0.000	34.459	0.000	0.000	41.189	38.918	-26.782	MWD+IFR1+MS
12300.000	90.000	179.641	9421.997	34.993	0.000	41.177	-0.000	34.993	0.000	0.000	41.549	39.003	-23.138	MWD+IFR1+MS
12400.000	90.000	179.641	9421.997	35.537	0.000	41.615	-0.000	35.537	0.000	0.000	41.934	39.074	-20.179	MWD+IFR1+MS
12500.000	90.000	179.641	9421.997	36.090	0.000	42.063	-0.000	36.090	0.000	0.000	42.340	39.134	-17.779	MWD+IFR1+MS
12600.000	90.000	179.641	9421.997	36.651	0.000	42.519	-0.000	36.651	0.000	0.000	42.763	39.186	-15.819	MWD+IFR1+MS
12700.000	90.000	179.641	9421.997	37.220	0.000	42.984	-0.000	37.220	0.000	0.000	43.202	39.232	-14.205	MWD+IFR1+MS

12800.000	90.000	179.641	9421.997	37.797	0.000	43.458	-0.000	37.797	0.000	0.000	43.653	39.275	-12.860	MWD+IFR1+MS
12900.000	90.000	179.641	9421.997	38.381	0.000	43.940	-0.000	38.381	0.000	0.000	44.117	39.314	-11.728	MWD+IFR1+MS
13000.000	90.000	179.641	9421.997	38.972	0.000	44.430	-0.000	38.972	0.000	0.000	44.591	39.351	-10.765	MWD+IFR1+MS
13100.000	90.000	179.641	9421.997	39.570	0.000	44.928	-0.000	39.570	0.000	0.000	45.075	39.386	-9.938	MWD+IFR1+MS
13200.000	90.000	179.641	9421.997	40.175	0.000	45.433	-0.000	40.175	0.000	0.000	45.569	39.419	-9.222	MWD+IFR1+MS
13300.000	90.000	179.641	9421.997	40.786	0.000	45.945	-0.000	40.786	0.000	0.000	46.071	39.452	-8.596	MWD+IFR1+MS
13400.000	90.000	179.641	9421.997	41.402	0.000	46.464	-0.000	41.402	0.000	0.000	46.582	39.484	-8.046	MWD+IFR1+MS
13500.000	90.000	179.641	9421.997	42.024	0.000	46.990	-0.000	42.024	0.000	0.000	47.100	39.516	-7.559	MWD+IFR1+MS
13600.000	90.000	179.641	9421.997	42.652	0.000	47.523	-0.000	42.652	0.000	0.000	47.625	39.547	-7.125	MWD+IFR1+MS
13700.000	90.000	179.641	9421.997	43.284	0.000	48.062	-0.000	43.284	0.000	0.000	48.158	39.578	-6.736	MWD+IFR1+MS
13800.000	90.000	179.641	9421.997	43.922	0.000	48.606	-0.000	43.922	0.000	0.000	48.697	39.609	-6.386	MWD+IFR1+MS
13900.000	90.000	179.641	9421.997	44.564	0.000	49.157	-0.000	44.564	0.000	0.000	49.243	39.640	-6.069	MWD+IFR1+MS
14000.000	90.000	179.641	9421.997	45.211	0.000	49.714	-0.000	45.211	0.000	0.000	49.795	39.671	-5.782	MWD+IFR1+MS
14100.000	90.000	179.641	9421.997	45.862	0.000	50.276	-0.000	45.862	0.000	0.000	50.353	39.702	-5.519	MWD+IFR1+MS
14200.000	90.000	179.641	9421.997	46.517	0.000	50.843	-0.000	46.517	0.000	0.000	50.916	39.733	-5.279	MWD+IFR1+MS
14300.000	90.000	179.641	9421.997	47.176	0.000	51.415	-0.000	47.176	0.000	0.000	51.485	39.765	-5.059	MWD+IFR1+MS
14400.000	90.000	179.641	9421.997	47.839	0.000	51.993	-0.000	47.839	0.000	0.000	52.059	39.796	-4.856	MWD+IFR1+MS
14500.000	90.000	179.641	9421.997	48.506	0.000	52.575	-0.000	48.506	0.000	0.000	52.639	39.828	-4.668	MWD+IFR1+MS
14600.000	90.000	179.641	9421.997	49.176	0.000	53.162	-0.000	49.176	0.000	0.000	53.223	39.861	-4.494	MWD+IFR1+MS
14700.000	90.000	179.641	9421.997	49.849	0.000	53.753	-0.000	49.849	0.000	0.000	53.812	39.893	-4.333	MWD+IFR1+MS
14800.000	90.000	179.641	9421.997	50.526	0.000	54.349	-0.000	50.526	0.000	0.000	54.405	39.926	-4.182	MWD+IFR1+MS
14900.000	90.000	179.641	9421.997	51.205	0.000	54.949	-0.000	51.205	0.000	0.000	55.003	39.959	-4.042	MWD+IFR1+MS
15000.000	90.000	179.641	9421.997	51.888	0.000	55.553	-0.000	51.888	0.000	0.000	55.604	39.993	-3.911	MWD+IFR1+MS
15100.000	90.000	179.641	9421.997	52.574	0.000	56.161	-0.000	52.574	0.000	0.000	56.210	40.027	-3.788	MWD+IFR1+MS
15200.000	90.000	179.641	9421.997	53.262	0.000	56.773	-0.000	53.262	0.000	0.000	56.820	40.061	-3.673	MWD+IFR1+MS
15300.000	90.000	179.641	9421.997	53.953	0.000	57.388	-0.000	53.953	0.000	0.000	57.434	40.096	-3.564	MWD+IFR1+MS
15400.000	90.000	179.641	9421.997	54.646	0.000	58.007	-0.000	54.646	0.000	0.000	58.052	40.131	-3.462	MWD+IFR1+MS
15500.000	90.000	179.641	9421.997	55.342	0.000	58.630	-0.000	55.342	0.000	0.000	58.673	40.167	-3.366	MWD+IFR1+MS
15600.000	90.000	179.641	9421.997	56.040	0.000	59.255	-0.000	56.040	0.000	0.000	59.297	40.202	-3.275	MWD+IFR1+MS
15700.000	90.000	179.641	9421.997	56.741	0.000	59.885	-0.000	56.741	0.000	0.000	59.925	40.239	-3.189	MWD+IFR1+MS
15800.000	90.000	179.641	9421.997	57.443	0.000	60.517	-0.000	57.443	0.000	0.000	60.556	40.276	-3.107	MWD+IFR1+MS
15900.000	90.000	179.641	9421.997	58.148	0.000	61.152	-0.000	58.148	0.000	0.000	61.190	40.313	-3.030	MWD+IFR1+MS
16000.000	90.000	179.641	9421.997	58.855	0.000	61.790	-0.000	58.855	0.000	0.000	61.827	40.350	-2.956	MWD+IFR1+MS

16100.000	90.000	179.641	9421.997	59.564	0.000	62.431	-0.000	59.564	0.000	62.467	40.388	-2.887	MWD+IFR1+MS
16200.000	90.000	179.641	9421.997	60.274	0.000	63.075	-0.000	60.274	0.000	63.110	40.427	-2.820	MWD+IFR1+MS
16300.000	90.000	179.641	9421.997	60.987	0.000	63.722	-0.000	60.987	0.000	63.755	40.466	-2.757	MWD+IFR1+MS
16400.000	90.000	179.641	9421.997	61.701	0.000	64.371	-0.000	61.701	0.000	64.404	40.505	-2.697	MWD+IFR1+MS
16500.000	90.000	179.641	9421.997	62.417	0.000	65.023	-0.000	62.417	0.000	65.054	40.545	-2.639	MWD+IFR1+MS
16600.000	90.000	179.641	9421.997	63.134	0.000	65.677	-0.000	63.134	0.000	65.708	40.585	-2.584	MWD+IFR1+MS
16700.000	90.000	179.641	9421.997	63.853	0.000	66.334	-0.000	63.853	0.000	66.363	40.626	-2.531	MWD+IFR1+MS
16800.000	90.000	179.641	9421.997	64.574	0.000	66.992	-0.000	64.574	0.000	67.022	40.667	-2.481	MWD+IFR1+MS
16900.000	90.000	179.641	9421.997	65.296	0.000	67.654	-0.000	65.296	0.000	67.682	40.709	-2.432	MWD+IFR1+MS
17000.000	90.000	179.641	9421.997	66.020	0.000	68.317	-0.000	66.020	0.000	68.345	40.751	-2.386	MWD+IFR1+MS
17100.000	90.000	179.641	9421.997	66.745	0.000	68.982	-0.000	66.745	0.000	69.009	40.793	-2.342	MWD+IFR1+MS
17200.000	90.000	179.641	9421.997	67.471	0.000	69.650	-0.000	67.471	0.000	69.676	40.836	-2.299	MWD+IFR1+MS
17300.000	90.000	179.641	9421.997	68.198	0.000	70.319	-0.000	68.198	0.000	70.345	40.879	-2.258	MWD+IFR1+MS
17400.000	90.000	179.641	9421.997	68.927	0.000	70.991	-0.000	68.927	0.000	71.016	40.923	-2.218	MWD+IFR1+MS
17500.000	90.000	179.641	9421.997	69.657	0.000	71.664	-0.000	69.657	0.000	71.689	40.968	-2.180	MWD+IFR1+MS
17600.000	90.000	179.641	9421.997	70.388	0.000	72.339	-0.000	70.388	0.000	72.363	41.012	-2.144	MWD+IFR1+MS
17700.000	90.000	179.641	9421.997	71.121	0.000	73.016	-0.000	71.121	0.000	73.040	41.057	-2.109	MWD+IFR1+MS
17800.000	90.000	179.641	9421.997	71.854	0.000	73.695	-0.000	71.854	0.000	73.718	41.103	-2.075	MWD+IFR1+MS
17900.000	90.000	179.641	9421.997	72.589	0.000	74.375	-0.000	72.589	0.000	74.398	41.149	-2.042	MWD+IFR1+MS
18000.000	90.000	179.641	9421.997	73.324	0.000	75.057	-0.000	73.324	0.000	75.079	41.195	-2.010	MWD+IFR1+MS
18100.000	90.000	179.641	9421.997	74.061	0.000	75.741	-0.000	74.061	0.000	75.762	41.242	-1.980	MWD+IFR1+MS
18200.000	90.000	179.641	9421.997	74.799	0.000	76.426	-0.000	74.799	0.000	76.447	41.290	-1.950	MWD+IFR1+MS
18300.000	90.000	179.641	9421.997	75.537	0.000	77.113	-0.000	75.537	0.000	77.133	41.338	-1.922	MWD+IFR1+MS
18400.000	90.000	179.641	9421.997	76.277	0.000	77.801	-0.000	76.277	0.000	77.821	41.386	-1.894	MWD+IFR1+MS
18500.000	90.000	179.641	9421.997	77.017	0.000	78.491	-0.000	77.017	0.000	78.510	41.434	-1.867	MWD+IFR1+MS
18600.000	90.000	179.641	9421.997	77.758	0.000	79.182	-0.000	77.758	0.000	79.201	41.484	-1.841	MWD+IFR1+MS
18700.000	90.000	179.641	9421.997	78.500	0.000	79.874	-0.000	78.500	0.000	79.893	41.533	-1.816	MWD+IFR1+MS
18800.000	90.000	179.641	9421.997	79.243	0.000	80.568	-0.000	79.243	0.000	80.586	41.583	-1.792	MWD+IFR1+MS
18900.000	90.000	179.641	9421.997	79.987	0.000	81.263	-0.000	79.987	0.000	81.281	41.634	-1.769	MWD+IFR1+MS
19000.000	90.000	179.641	9421.997	80.731	0.000	81.959	-0.000	80.731	0.000	81.977	41.684	-1.746	MWD+IFR1+MS
19100.000	90.000	179.641	9421.997	81.476	0.000	82.656	-0.000	81.476	0.000	82.674	41.736	-1.724	MWD+IFR1+MS
19200.000	90.000	179.641	9421.997	82.222	0.000	83.355	-0.000	82.222	0.000	83.372	41.787	-1.702	MWD+IFR1+MS
19300.000	90.000	179.641	9421.997	82.969	0.000	84.055	-0.000	82.969	0.000	84.072	41.840	-1.681	MWD+IFR1+MS

19400.000	90.000	179.641	9421.997	83.716	0.000	84.756	-0.000	83.716	0.000	84.772	41.892	-1.661	MWD+IFR1+MS
19500.000	90.000	179.641	9421.997	84.464	0.000	85.458	-0.000	84.464	0.000	85.474	41.945	-1.641	MWD+IFR1+MS
19600.000	90.000	179.641	9421.997	85.213	0.000	86.161	-0.000	85.213	0.000	86.177	41.999	-1.622	MWD+IFR1+MS
19700.000	90.000	179.641	9421.997	85.963	0.000	86.865	-0.000	85.963	0.000	86.881	42.053	-1.603	MWD+IFR1+MS
19800.000	90.000	179.641	9421.997	86.713	0.000	87.570	-0.000	86.713	0.000	87.586	42.107	-1.585	MWD+IFR1+MS
19900.000	90.000	179.641	9421.997	87.463	0.000	88.277	-0.000	87.463	0.000	88.292	42.162	-1.568	MWD+IFR1+MS
20000.000	90.000	179.641	9421.997	88.214	0.000	88.984	-0.000	88.214	0.000	88.999	42.217	-1.550	MWD+IFR1+MS
20100.000	90.000	179.641	9421.997	88.966	0.000	89.692	-0.000	88.966	0.000	89.707	42.272	-1.534	MWD+IFR1+MS
20200.000	90.000	179.641	9421.997	89.718	0.000	90.401	-0.000	89.718	0.000	90.416	42.328	-1.517	MWD+IFR1+MS
20300.000	90.000	179.641	9421.997	90.471	0.000	91.111	-0.000	90.471	0.000	91.125	42.385	-1.502	MWD+IFR1+MS
20400.000	90.000	179.641	9421.997	91.225	0.000	91.822	-0.000	91.225	0.000	91.836	42.441	-1.486	MWD+IFR1+MS
20500.000	90.000	179.641	9421.997	91.979	0.000	92.534	-0.000	91.979	0.000	92.548	42.499	-1.471	MWD+IFR1+MS
20600.000	90.000	179.641	9421.997	92.733	0.000	93.247	-0.000	92.733	0.000	93.260	42.556	-1.456	MWD+IFR1+MS
20700.000	90.000	179.641	9421.997	93.488	0.000	93.960	-0.000	93.488	0.000	93.973	42.614	-1.442	MWD+IFR1+MS
20800.000	90.000	179.641	9421.997	94.244	0.000	94.674	-0.000	94.244	0.000	94.687	42.673	-1.428	MWD+IFR1+MS
20900.000	90.000	179.641	9421.997	94.999	0.000	95.389	-0.000	94.999	0.000	95.402	42.732	-1.414	MWD+IFR1+MS
21000.000	90.000	179.641	9421.997	95.756	0.000	96.105	-0.000	95.756	0.000	96.118	42.791	-1.401	MWD+IFR1+MS
21100.000	90.000	179.641	9421.997	96.513	0.000	96.822	-0.000	96.513	0.000	96.834	42.851	-1.388	MWD+IFR1+MS
21200.000	90.000	179.641	9421.997	97.270	0.000	97.539	-0.000	97.270	0.000	97.552	42.911	-1.375	MWD+IFR1+MS
21300.000	90.000	179.641	9421.997	98.028	0.000	98.257	-0.000	98.028	0.000	98.270	42.971	-1.363	MWD+IFR1+MS
21400.000	90.000	179.641	9421.997	98.786	0.000	98.976	-0.000	98.786	0.000	98.988	43.032	-1.351	MWD+IFR1+MS
21500.000	90.000	179.641	9421.997	99.544	0.000	99.696	-0.000	99.544	0.000	99.708	43.093	-1.339	MWD+IFR1+MS
21600.000	90.000	179.641	9421.997	100.303	0.000	100.416	-0.000	100.303	0.000	100.428	43.155	-1.327	MWD+IFR1+MS
21700.000	90.000	179.641	9421.997	101.063	0.000	101.137	-0.000	101.063	0.000	101.148	43.217	-1.316	MWD+IFR1+MS
21800.000	90.000	179.641	9421.997	101.822	0.000	101.858	-0.000	101.822	0.000	101.870	43.280	-1.305	MWD+IFR1+MS
21900.000	90.000	179.641	9421.997	102.583	0.000	102.581	-0.000	102.583	0.000	102.592	43.343	-1.294	MWD+IFR1+MS
22000.000	90.000	179.641	9421.997	103.343	0.000	103.303	-0.000	103.343	0.000	103.314	43.406	-1.283	MWD+IFR1+MS
22100.000	90.000	179.641	9421.997	104.104	0.000	104.027	-0.000	104.104	0.000	104.038	43.470	-1.273	MWD+IFR1+MS
22126.724	90.000	179.641	9421.997	104.307	0.000	104.219	-0.000	104.307	0.000	104.230	43.487	-1.270	MWD+IFR1+MS
22200.000	90.000	179.641	9421.997	104.864	0.000	104.749	-0.000	104.864	0.000	104.759	43.534	-1.263	MWD+IFR1+MS
22216.725	90.000	179.641	9421.997	104.991	0.000	104.869	-0.000	104.991	0.000	104.880	43.544	-1.261	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 21 DTD South 121H

Well Plan Report

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	9598.70	440417.90	636216.60	6073.00	RECTANGLE
SHL 8	9433.60	440283.47	636147.33	5943.00	RECTANGLE
LTP 1	22126.74	427408.40	636298.10	6073.00	RECTANGLE
BHL 1	22216.90	427318.40	636298.50	6073.00	RECTANGLE



U. S. Steel Tubular Products
5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®



MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		—
Minimum Yield Strength	110,000	—	psi	—
Maximum Yield Strength	125,000	—	psi	—
Minimum Tensile Strength	125,000	—	psi	—
DIMENSIONS	Pipe	USS-FREEDOM HTQ®		—
Outside Diameter	5.500	6.300	in.	—
Wall Thickness	0.361	--	in.	—
Inside Diameter	4.778	4.778	in.	—
Standard Drift	4.653	4.653	in.	—
Alternate Drift	--	--	in.	—
Nominal Linear Weight, T&C	20.00	--	lb/ft	—
Plain End Weight	19.83	--	lb/ft	—
SECTION AREA	Pipe	USS-FREEDOM HTQ®		—
Critical Area	5.828	5.828	sq. in.	—
Joint Efficiency	—	100.0	%	—
PERFORMANCE	Pipe	USS-FREEDOM HTQ®		—
Minimum Collapse Pressure	11,100	11,100	psi	—
Minimum Internal Yield Pressure	12,640	12,640	psi	—
Minimum Pipe Body Yield Strength	641,000	--	lb	—
Joint Strength	--	641,000	lb	—
Compression Rating	--	641,000	lb	—
Reference Length [4]	--	21,370	ft	—
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	—
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®		—
Make-Up Loss	--	4.13	in.	—
Minimum Make-Up Torque [3]	--	15,000	ft-lb	—
Maximum Make-Up Torque [3]	--	21,000	ft-lb	—
Maximum Operating Torque[3]	--	29,500	ft-lb	—

UNCONTROLLED

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

				
MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	—	psi	—
Maximum Yield Strength	125,000	—	psi	—
Minimum Tensile Strength	125,000	—	psi	—
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		—
Outside Diameter	5.500	5.900	in.	—
Wall Thickness	0.361	--	in.	—
Inside Diameter	4.778	4.778	in.	—
Standard Drift	4.653	4.653	in.	—
Alternate Drift	—	--	in.	—
Nominal Linear Weight, T&C	20.00	--	lb/ft	—
Plain End Weight	19.83	--	lb/ft	—
SECTION AREA	Pipe	USS-TALON HTQ™ RD		—
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		—
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		—
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

UNCONTROLLED

Notes

- Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

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Houston, TX. 77086

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NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE:*F. Cismos***TITLE:****QUALITY ASSURANCE****DATE:**

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

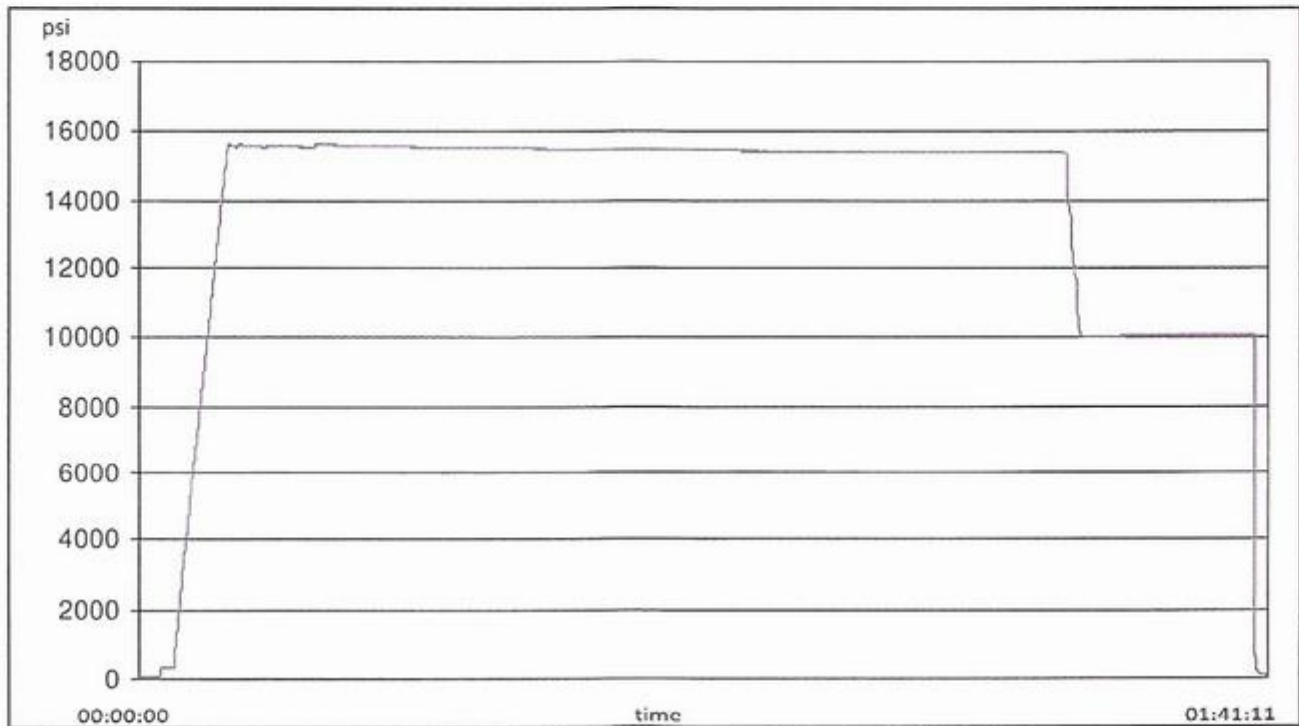
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

1/25/2024 11:48:06 AM

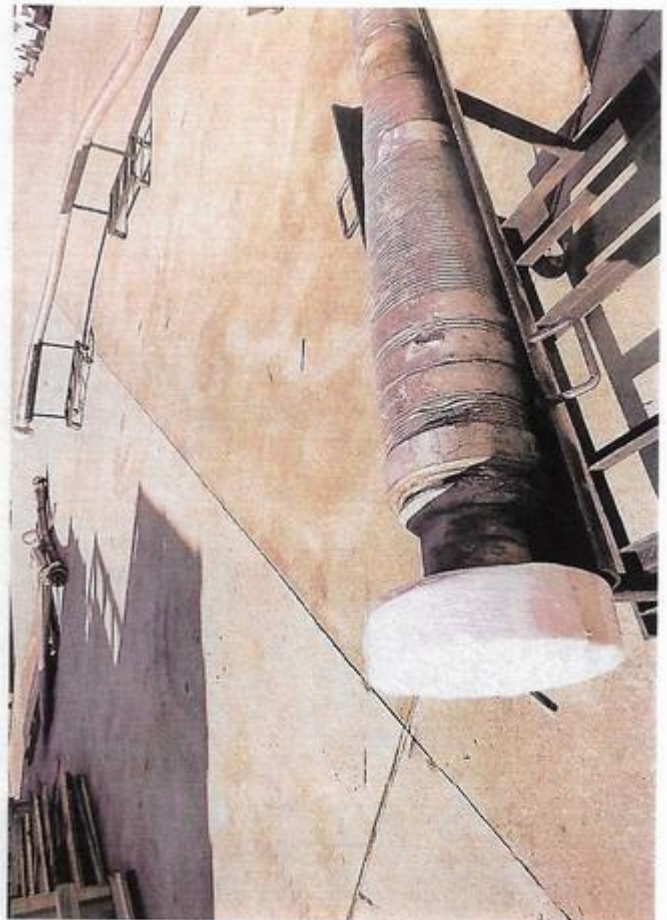
TEST REPORT

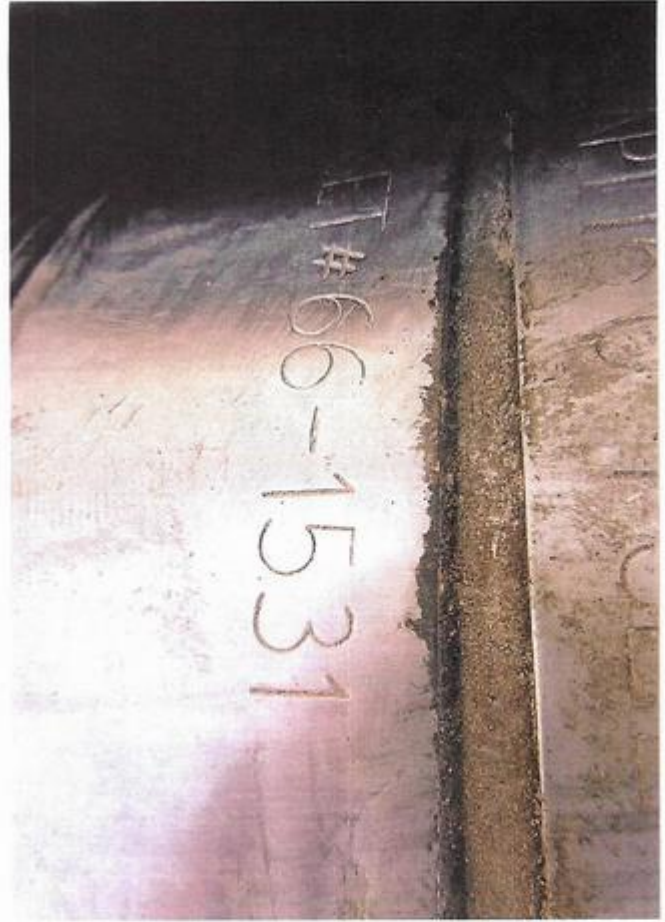
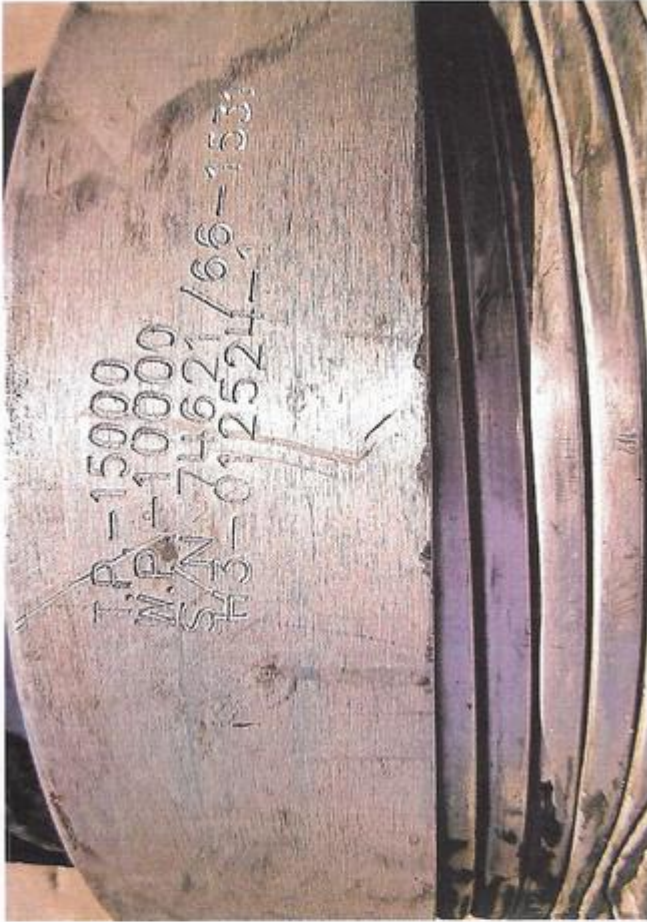
GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment

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XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 380956

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 380956
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	9/6/2024